The Development of Rainbow “Academic Support System for Vocabulary and Example Sentences in Science and Engineering” based on a Science and Engineering Spoken Japanese Corpus

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“Rainbow-Academic Support System for Vocabulary and Example Sentences in Science and Engineering” (Rainbow hereafter) is an online academic support system built on the basis of science and engineering spoken corpus (SESJ corpus hereafter) data to search vocabulary and examples. The purpose of Rainbow is to offer linguistic and educational support to non-Japanese international students to have a better understanding of presentations and discussion during the seminars, and to help them use the vocabulary and expressions. The entries of Rainbow mainly consist of the top most frequent twenty nouns and nominal compounds selected by experts. Searches for vocabulary, its translation and examples can be conducted by inputting a word. The examples contain various collocations selected by Japanese teachers based on educational purposes. This paper first states the motivation for building SESJ corpus, and then describes the procedures for developing Rainbow.